

Applic. No. 10/633,995
Amdt. dated April 20, 2006
Reply to Office action of March 23, 2006

Claim Amendments

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (previously presented): A sheet-processing machine, comprising:

a revolving sheet holding device for aiding in transporting sheets to be processed, said revolving sheet holding device including a suction bar extending transversely to a sheet transport direction and having suction elements disposed thereon and two revolving endless flexible drives holding ends of said suction bar;

a device for producing suction air or air blast, including:

a movable air delivery element accommodated on said revolving sheet holding device, said air delivery element being integrated in said suction bar; and

an actuating element cooperatively engaging with said air delivery element for driving said air delivery element,

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said actuating element being one of fixed to a machine
frame and movable relative to said sheet holding device.

Claims 2 and 3 (cancelled).

Claim 4 (previously presented): The sheet-processing machine according to claim 1, wherein a multiplicity of said suction elements are mounted on said suction bar at a spaced distance from one another and serve for attracting the sheets at a trailing edge thereof by suction.

Claim 5 (previously presented): The sheet-processing machine according to claim 4, wherein said suction bar is formed with a longitudinally extending connecting line through which suction air is applicable by said air delivery element jointly to said multiplicity of suction elements.

Claim 6 (previously presented): A sheet-processing machine, comprising:

a revolving sheet holding device for aiding in transporting sheets to be processed, said revolving sheet holding device including a suction bar extending transversely to a sheet transport direction and having suction elements disposed

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thereon and two revolving endless flexible drives holding ends
of said suction bar;

a device for producing suction air or air blast, including:

a movable air delivery element accommodated on said
revolving sheet holding device;

an actuating element cooperatively engaging with said air
delivery element for driving said air delivery element,
said actuating element being one of fixed to a machine
frame and movable relative to said sheet holding device;
and

at least one further air delivery element accommodated on
said suction bar for acting on at least one further
suction element, said at least one further air delivery
element being driven in common by said actuating element.

Claim 7 (previously presented): A sheet-processing machine,
comprising:

a revolving sheet holding device for aiding in transporting
sheets to be processed;

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a device for producing suction air or air blast, including:

a movable air delivery element accommodated on said revolving sheet holding device;

an actuating element cooperatively engaging with said air delivery element for driving said air delivery element, said actuating element being one of fixed to a machine frame and movable relative to said sheet holding device; and

said movable air delivery element ~~includes~~ including an impeller rotatable within a cylindrical pump housing of an oscillating pump, said impeller having a drive connection through a rotational drive shaft to a roller element rolling on a cam disk fixed to the machine frame and forming said actuating element.

Claim 8 (previously presented): The sheet-processing machine according to claim 6, wherein a plurality of movable impellers are accommodated on said suction bar and are driven by a common drive shaft.

Claim 9-15 (cancelled).

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Claim 16 (previously presented): In a sheet-processing machine having a revolving sheet holding device for aiding in transporting sheets to be processed, a device for producing suction air or air blast, comprising:

a movable air delivery element accommodated on the revolving sheet holding device;

an actuating element cooperatively engaging with said air delivery element for driving said air delivery element, said actuating element being one of fixed to a machine frame and movable relative to the sheet holding device; and

said movable air delivery element including an impeller rotatable within a cylindrical pump housing of an oscillating pump, said impeller having a drive connection through a rotational drive shaft to a roller element rolling on a cam disk fixed to the machine frame and forming said actuating element.

Claim 17 (new): The sheet-processing machine according to claim 1, wherein said movable air delivery element includes a piston to be displaced within a cylindrical pump housing of a piston pump, said piston being reciprocated by a piston rod, said piston rod having one end to be guided along an axial cam

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track fixed to the machine frame and forming said actuating element, for producing an axial movement of said piston rod.

Claim 18 (new): The sheet-processing machine according to claim 17, which further comprises a roller for supporting said one end of said piston rod on said cam track, said piston being acted upon by a resilient force for urging said piston in a direction towards said axial cam track.

Claim 19 (new): The sheet-processing machine according to claim 6, wherein a plurality of movable pistons are accommodated on said suction bar and are to be reciprocated by a common piston rod.